**Exhibit B** USSN 10/563,194

## Alignment of NFR1 polypeptides SEQ ID NO 25 with SEQ ID NOs 24, 52, and 54

SEQ24 SEQ25 SEQ52 SEQ54	MKLKTGLLLFFILLLGHVCFHVESNCLKGCDLALASYYILPGVFILQNITTFMQSEIVS-MKLKTGLLLFFILLLGHVCFHVESNCLKGCDLALASYYILPGVFILQNITTFMQSEIVS-MKLKNGLLLFFLFVE-CAFFKVDSKCVKGCDLALASYYVMP-LVELPTIKNYMQSKIVTNMKLKNGLLLFFMFLD-CIFFKVESKCVIGCDIALASYYVMP-LVQLSNITTFMQSKLVTN****.*********:: *:*:*:*:*:*:*:*:*:*::*::*::*
SEQ24 SEQ25 SEQ52 SEQ54	SNDAITSYNKDKILNDINIQSFQRLNIPFPCDCIGGEFLGHVFEYSASKGDTYETIANLY SNDAITSYNKDKILNDINIQSFQRLNIPFPCDCIGGEFLGHVFEYSASKGDTYETIANLY SSDVLNSYNKVLVTNHGNIFSYFRINIPFPCECIGGEFLGHVFEYTTKKGDTYDLIANNY SFEVIVRYNRDIVFSNDNLFSYFRVNIPFPCECIGGEFLGHVFEYTANEGDTYDLIANTY * :.: **: : *: *: *:*****************
SEQ24 SEQ25 SEQ52 SEQ54	YANLTTVDLLKRFNSYDPKNIPVNAKVNVTVNCSCGNSQVSKDYGLFITYPIRPGDTLQD YANLTTVDLLKRFNSYDPKNIPVNAKVNVTVNCSCGNSQVSKDYGLFITYPIRPGDTLQD YVSLTSVELLKKFNSYDPNHIPAKAKVNVTVNCSCGNSQISKDYGLFVTYPLRSTDSLEK YASLTTVEVLKKYNSYDPNHIPVKAKVNVTVNCSCGNSQISKDYGLFITYPLRPRDTLEK ***:*::**::**::**::**::**::**::**::**
SEQ24 SEQ25 SEQ52 SEQ54	IANQSSLDAGLIQSFNPSVNFSKDSGIAFIPGRYKNGVYVPLYHRTAGLASGAAVGISIA IANQSSLDAGLIQSFNPSVNFSKDSGIAFIPGRYKNGVYVPLYHRTAGLASGAAVGISIA IANESKLDEGLIQNFNPDVNFSRGSGIVFIPGRDKNGEYVPLYPKTG-VGKGVAIGISIA IARHSNLDEGVIQSYNLGVNFSKGSGVVFFPGRDKNGEYVPLYPRTG-LGKGAAAGISIA ***.** *:**.:* .****:.**: ***********
SEQ24 SEQ25 SEQ52 SEQ54	GTFVLLLLAFCMYVR-YQKKEEEKAKLPTDISMALSTQDASSSAEYETSGSSGPGTAS GTFVLLLLAFCMYVR-YQKKEEEKAKLPTDISMALSTQDAGNSSSAEYETSGSSGPGTAS GVFAVLLFVICIYVKYFQKKEEEKTILP-QVSKALSTQDGNASSSGEYETSGSSGHGTGS GIFALLLFVICIYIKYFQKKEEEKTKLP-QVSTALSAQDASGSGEYETSGSSGHGTGS * *.:**::::::::::::::::::::::::::::::::
SEQ24 SEQ25 SEQ52 SEQ54	ATGLTSIMVAKSMEFSYQELAKATNNFSLDNKIGQGGFGAVYYAELRGKKTAIKKMDVQA ATGLTSIMVAKSMEFSYQELAKATNNFSLDNKIGQGGFGAVYYAELRGKKTAIKKMDVQA AAGLTGIMVAKSTEFSYQELAKATDNFSLDNKIGQGGFGAVYYAELRGEKTAIKKMNVQA TAGLTGIMVAKSTEFSYQELAKATNNFSLDNKIGQGGFGAVYYAVLRGEKTAIKKMDVQA ::***.****** **************************
SEQ24 SEQ25 SEQ52 SEQ54	STEFLCELKVLTHVHHLNLVRLIGYCVEGSLFLVYEHIDNGNLGQYLHGSGKEPLPWSSR STEFLCELKVLTHVHHLNLVRLIGYCVEGSLFLVYEHIDNGNLGQYLHGSGKEPLPWSSR SSEFLCELKVLTHVHHLNLVRLIGYCVEGSLFLVYEHIDNGNLGQYLHGKDKEPLPWSSR STEFLCELQVLTHVHHLNLVRLIGYCVEGSLFLVYEHIDNGNLGQYLHGIDKAPLPWSSR *:******
SEQ24 SEQ25 SEQ52 SEQ54	VQIALDAARGLEYIHEHTVPVYIHRDVKSANILIDKNLRGKVADFGLTKLIEVGNSTLQT VQIALDAARGLEYIHEHTVPVYIHRDVKSANILIDKNLRGKVADFGLTKLIEVGNSTLQT VQIALDSARGLEYIHEHTVPVYIHRDVKSANILIDKNLRGKVADFGLTKLIEVGNSTLHT VQIALDSARGLEYIHEHTVPVYIHRDVKSANILIDKNLHGKVADFGLTKLIEVGNSTLHT *****:*******************************
SEQ24 SEQ25 SEQ52 SEQ54	RLVGTFGYMPPEYAQYGDISPKIDVYAFGVVLFELISAKNAVLKTG-ELVAESKGLVALF RLVGTFGYMPPEYAQYGDISPKIDVYAFGVVLFELISAKNAVLKTG-ELVAESKGLVALF RLVGTFGYMPPEYAQYGDVSPKIDVYAFGVVLYELISAKNAVLKTGEESVAESKGLVALF RLVGTFGYMPPEYAQYGDVSPKIDVYAFGVVLYELISAKNAILKTG-ESAVESKGLVALF ************************************

**Exhibit B** USSN 10/563,194

## Alignment of NFR1 polypeptides SEQ ID NO 25 with SEQ ID NOs 24, 52, and 54

SEQ24 SEQ25 SEQ52 SEQ54	EEALNKSDPCDALRKLVDPRLGENYPIDSVLKIAQLGRACTRDNPLLRPSMRSLVVALMT EEALNKSDPCDALRKLVDPRLGENYPIDSVLKIAQLGRACTRDNPLLRPSMRSLVVALMT EKALNQIDPSEALRKLVDPRLKENYPIDSVLKMAQLGRACTRDNPLLRPSMRSLVVDLMT EEALNQIDPLEALRKLVDPRLKENYPIDSVLKMAQLGRACTRDNPLLRPSMRSLVVALMT *:**: ** :****************************
SEO24	LSSLTEDCDDESSYESOTLINLLSVR
SEQ25	LSSLTEDCDDESSYESOTLINLLSVR
SE052	LSSPFEDCDDDTSYENOTLINLLSVR
~	~
SEQ54	LLSHTDDDDTFYENQSLTNLLSVR
	* * · **· ** *****
SEQ24	99% identity
SEQ25	100% identity
SEO52	78.5% identity
~	<u> </u>
SEQ54	77.9% identity

## **KEY**

\* = identical residues

: = conserved substitutions

. = semi-conserved substitutions (isosteric)